

Appl. No. 10/618,046
Amdt.. Dated August 24, 2004
Reply to Office action of May 26, 2004

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended): An incinerator for incinerating solid wastes, comprising:
 - a furnace that defines a combustion chamber therein;
 - a feed supply adapted for containing the solid wastes therein;
 - a feed-delivering conduit connected to said feed supply and said furnace so as to permit delivery of the solid wastes into said combustion chamber wherein said feed-delivering conduit has a laterally extending segment that extends in said transverse direction through said furnace, and that has a feed-discharging end disposed in said combustion chamber and opening downwardly, said transverse segment of said air distributor being disposed above said feed-discharging end, said elongated segment of said air distributor extending upwardly from said transverse segment in said longitudinal direction away from said feed-discharging end of said laterally extending segment of said feed-delivering conduit;
 - an air supply connected to said furnace for supplying air into said combustion chamber wherein said air supply includes an air blower, and an air conduit connected to said air blower and said furnace; and
 - an air distributor that is disposed in said combustion chamber, that is connected to said air supply, and that has an elongated segment which extends in a longitudinal direction the same as a flow direction of combustion gases in said combustion chamber, and which is formed with a plurality of spaced apart holes distributed along said longitudinal direction, each of said holes opening in a transverse direction relative to said longitudinal direction so as to permit uniform distribution of air into said combustion chamber wherein said air distributor is in the form of an L-shaped pipe, and further has a transverse segment that extends from said elongated segment in

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said transverse direction and that is connected to said air conduit.

2-4 (cancelled)

5. (currently amended): The incinerator of Claim [[4]] 1, wherein said elongated segment of said air distributor has a top end, said furnace being formed with spaced apart first and second air inlets which are connected to said air conduit, said first air inlet being disposed at an elevation substantially the same as that of said top end of said elongated segment, said second air inlet being disposed at an elevation below said feed-discharging end of said laterally extending segment of said feed-delivering conduit.

6 (cancelled)

7 (cancelled)

8 (currently amended): The incinerator of Claim 7, An incinerator for incinerating solid wastes, comprising:

a furnace that defines a combustion chamber therein;

a feed supply adapted for containing the solid wastes therein;

a feed-delivering conduit connected to said feed supply and said furnace so as to permit delivery of the solid wastes into said combustion chamber;

an air supply connected to said furnace for supplying air into said combustion chamber;
and

an air distributor that is disposed in said combustion chamber, that is connected to said air supply, and that has an elongated segment which extends in a longitudinal direction the same as a flow direction of combustion gases in said combustion chamber, and which is formed with a plurality of spaced apart holes distributed along said longitudinal direction, each of said holes opening in a transverse direction relative to said longitudinal direction so as to permit uniform distribution of air into said combustion chamber;

wherein said air supply includes a first air blower, said air distributor being in the form of an L-shaped pipe, and further having a transverse segment that extends from said elongated segment in said transverse direction and that is connected to said first air blower;

wherein said air supply further includes a second air blower and an air conduit that is connected to said furnace and said second air blower; and wherein said feed-delivering conduit has a laterally extending segment that extends in said transverse direction through said furnace, and that has a feed-discharging end disposed in said combustion chamber and opening downwardly, said transverse segment of said air distributor being disposed above said feed-discharging end, said elongated segment of said air distributor extending upwardly from said transverse segment in said longitudinal direction away from said feed-discharging end of said laterally extending

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segment of said feed-delivering conduit.

9 (original): The incinerator of Claim 8, wherein said elongated segment of said air distributor has a top end, said furnace being formed with spaced apart first and second air inlets which are connected to said air conduit, said first air inlet being disposed at an elevation substantially the same as that of said top end of said elongated segment, said second air inlet being disposed at an elevation below said feed-discharging end of said laterally extending segment of said feed-delivering conduit.